

इंटरनेट

मानक

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IS 5848 (1996): Implants for Surgery - Skeletal Pins and Wires - Steinmann Skeletal Pins - Dimensions [MHD 2: Orthopaedic Instruments, Implants and Accessories]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

शल्य चिकित्सा के लिए अन्तर्रोपण — स्कैलटल
पिन व तारें — स्टेनमन स्कैलटल पिन — आयाम
(पहला पुनरीक्षण)

Indian Standard

IMPLANTS FOR SURGERY — SKELETAL PINS
AND WIRES — STEINMANN SKELETAL PINS —
DIMENSIONS

(First Revision)

ICS 11.040.30, 11.040.40

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BUREAU OF INDIAN STANDARDS
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NATIONAL FOREWORD

This Indian Standard (First Revision) which is identical with ISO 5838-2 : 1991 'Implants for surgery – Skeletal pins and wires – Part 2 : Steinmann skeletal pins – Dimensions', issued by the International Organization for Standardization (ISO), was adopted by the Bureau of Indian Standards, on the recommendations of Orthopaedic Instruments and Accessories Sectional Committee and approval of Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1970. Consequent upon the publication of ISO 5838-2 : 1991 the committee felt the necessity of revising this standard to align its requirements with the latest technological developments covering various forms of pin ends that is circular, square and triangular ends. The first revision of this standard has therefore been brought out and the standard is being published as a dual number standard to align it with ISO 5838-2 : 1991.

This standard covers only dimensions of Steinmann Skeletal pins. The material and mechanical requirements of these pins are covered separately in IS 8261 (Part 4) : 1984 'Pins and wires skeletal traction: Part 4 Material and mechanical requirements', which is a dual number adoption of ISO 5838-1 : 1983.

The text of above mentioned ISO standard has been approved as suitable for publication as Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following :

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

For the purpose of deciding wheather a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

IMPLANTS FOR SURGERY — SKELETAL PINS AND WIRES — STEINMANN SKELETAL PINS — DIMENSIONS

1 Scope

This part of ISO 5838 specifies the dimensions of Steinmann skeletal pins. Material and mechanical requirements are covered by ISO 5838-1

NOTE 1 Attention is drawn to the possible need for different designs of points depending on such factors as the method of insertion, and the site of insertion, i.e. whether the bone is cancellous or cortical.

2 Dimensions

Dimensions shall be in accordance with figure 1 to figure 5 and table 1 to table 3. All dimensions in this part of ISO 5838 are given in millimetres.

Table 1 — Main dimensions of skeletal pins

| Diameter d 0 -0,048 | Length l ± 2 |
|--------------------------------|--------------------------|
| 3,5 | 125 to 300 |
| 4,5 | |
| 5 | |

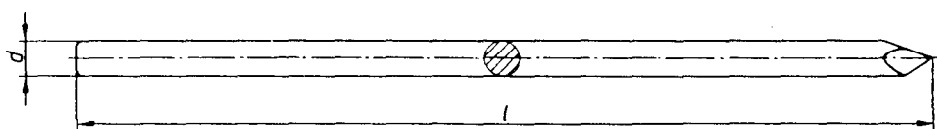


Figure 1 — Main dimensions of skeletal pins

3 Ends

3.1 General

One end of the pin shall be formed into a point. The end opposite the point shall comply with one of the forms A, B or C as given in 3.2, 3.3 and 3.4.

NOTE 2 It is recommended that the pointed end is as shown in figure 2.

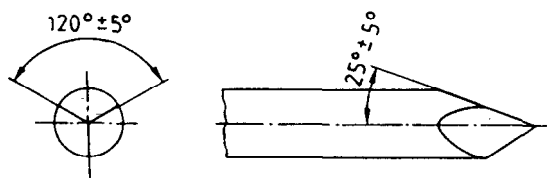


Figure 2 — Recommended point of Steinmann skeletal pin

3.2 Form A — Plain

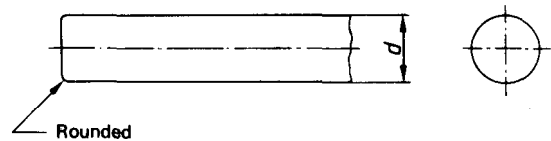


Figure 3 — Form A: Circular end

3.3 Form B — Square

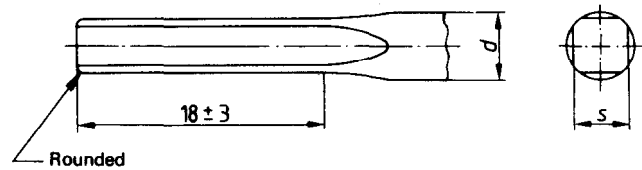


Figure 4 — Form B: Square end

Table 2 — Dimensions of form B end

| Diameter <i>d</i> | <i>s</i> |
|---|--|
| $\begin{matrix} 0 \\ -0,048 \end{matrix}$ | $\begin{matrix} 0 \\ -0,01 \end{matrix}$ |
| 3,5 | 2,7 |
| 4 | 3,15 |
| 4,5 | 3,55 |
| 5 | 4 |

3.4 Form C — Triangular

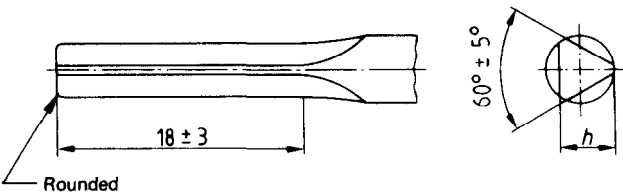


Figure 5 — Triangular end

Table 3 — Dimensions of form C end

| Diameter <i>d</i> | <i>h</i> |
|---|--|
| $\begin{matrix} 0 \\ -0,048 \end{matrix}$ | $\begin{matrix} 0 \\ -0,01 \end{matrix}$ |
| 3,5 | 3,2 |
| 4 | 3,7 |
| 4,5 | 4,2 |
| 5 | 4,7 |

4 Marking of packages

The length and diameter of Steinmann skeletal pins and the shape of the end (i.e. circular, square, triangular) shall be stated on the packaging.

Bureau of Indian Standards

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This Indian Standard has been developed from Doc : No. MHD 2 (2630).

Amendments Issued Since Publication

| Amend No. | Date of Issue | Text Affected |
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